



Recombinant Protein Technical Manual
Recombinant Human S100A8&S100A9 Heterodimer
Protein (His Tag)
RPES3112

Product Data:

Product SKU: RPES3112

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P05109&P06702

Protein Information:

Molecular Mass: 11.7&13.2 kDa

AP Molecular Mass: 15 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at<-20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM HEPES,10%Glycerol,150mM NaCl,2.5mM EDTA,pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: S100A8/S100A9 Heterodimer

Immunogen Information:

Sequence: Met 1-Glu93(S100A8)&Thr 2-Pro114(S100A9)

Background:

S100A8 is a member of the S100 family, EF-hand superfamily of Ca-binding proteins. It is produced by neutrophils and monocytes, and forms Ca²⁺-dependent heterodimer/heterotetramer complexes (termed calprotectin) with S100A9. Calprotectin (S100A8/A9) which has a wide plethora of intra- and extracellular functions. The intracellular functions include: facilitating leukocyte arachidonic acid trafficking and metabolism, modulation of the tubulin-dependent cytoskeleton during migration of phagocytes and activation of the neutrophilic NADPH-oxidase.